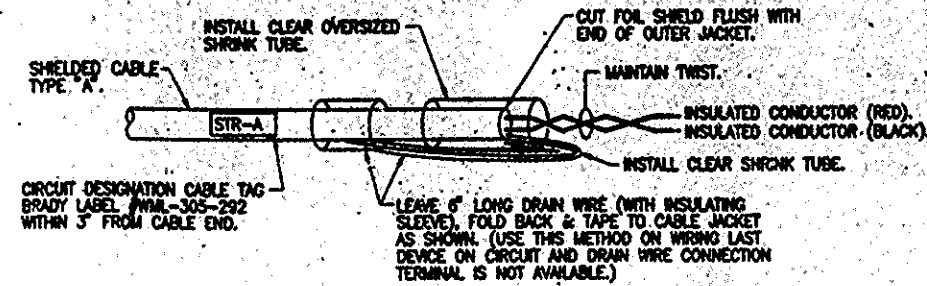


**TYPICAL SHIELD/DRAIN INSULATING METHOD "A"**  
N.T.S.



**TYPICAL SHIELD/DRAIN INSULATING METHOD "B"**  
N.T.S.

**NOTES:**

1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE DWG E-1.
2. WIRING DIAGRAMS SHOWN ARE SCHEMATIC REPRESENTATIONS FOR CONNECTIONS ONLY. FOR DEVICE INSTALLATION, REFER TO INSTALLATION DETAILS ON DRAWING E-56.
3. INSULATE SHIELD & DRAIN WIRE AS SHOWN ON TYPICAL SHIELD/DRAIN INSULATING METHOD.
4. SHIELD MUST BE CONTINUOUS AND INSULATED FROM BOXES, CONDUITS, ETC.
5. 2"x1" NAMEPLATES SHALL BE LAMINATED PLASTIC, 1/4" WHITE LETTERS ON BLACK BACKGROUND WITH BEVELLED EDGES ENGRAVED AS SHOWN.
6. LABEL NAMEPLATE WITH PROPER FAN NOMENCLATURE.
7. PRIOR TO INSTALLATION OF INTERPOSING RELAYS, RELOCATE EXISTING BATTERY FROM XL3 CABINET TO TEMPORARY BB-SSR BATTERY CABINET. (FURNISHED BY THE AUTHORITY). PROVIDE TEMPORARY CONNECTION WITH 3/4" FLEXIBLE METALLIC CONDUIT AND 3/16" BROW CONDUCTORS (ONE RED & ONE BLACK). LOCATE BB-SSR BATTERY CABINET NOT MORE THAN 50' FROM XL3 CABINET. COORDINATE THIS LOCATION WITH THE ENGINEER PRIOR TO INSTALLATION.

Sheet 57 of 58

**FIRE ALARM SYSTEM  
OF NY & NJ**

ENGINEERING PROGRAM MANAGER  
WORLD TRADE  
CHIEF ELECTRICAL ENGINEER

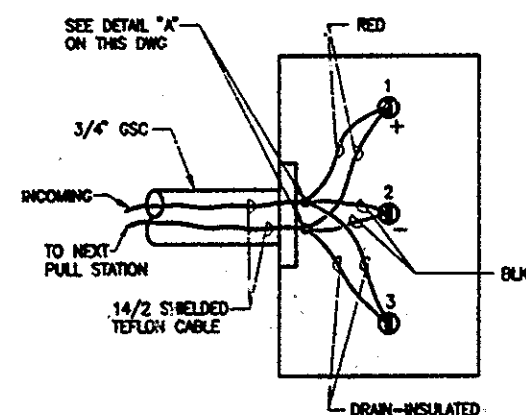
No. Date Revision Approved

Engineering Department  
Design Division  
**The World Trade Center**

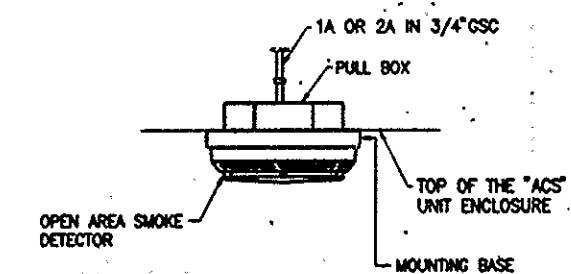
**FIRE ALARM SYSTEM  
PHASE III  
XL3 CONVERSION  
ELECTRICAL  
TYPICAL DETAILS  
AND  
WIRING DIAGRAMS  
SHEET 1 OF 2**

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

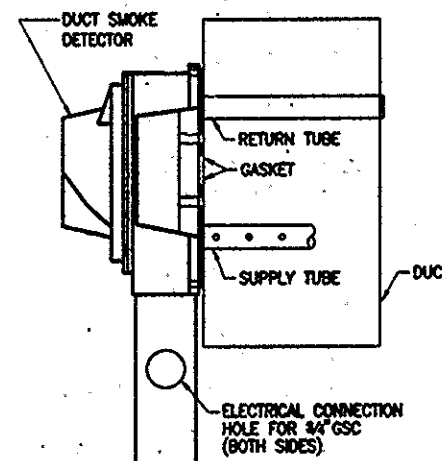
ROYZMAN  
FELDSTEIN  
Designed by  
Date 5-20-99  
Contract Number  
WTC-881082



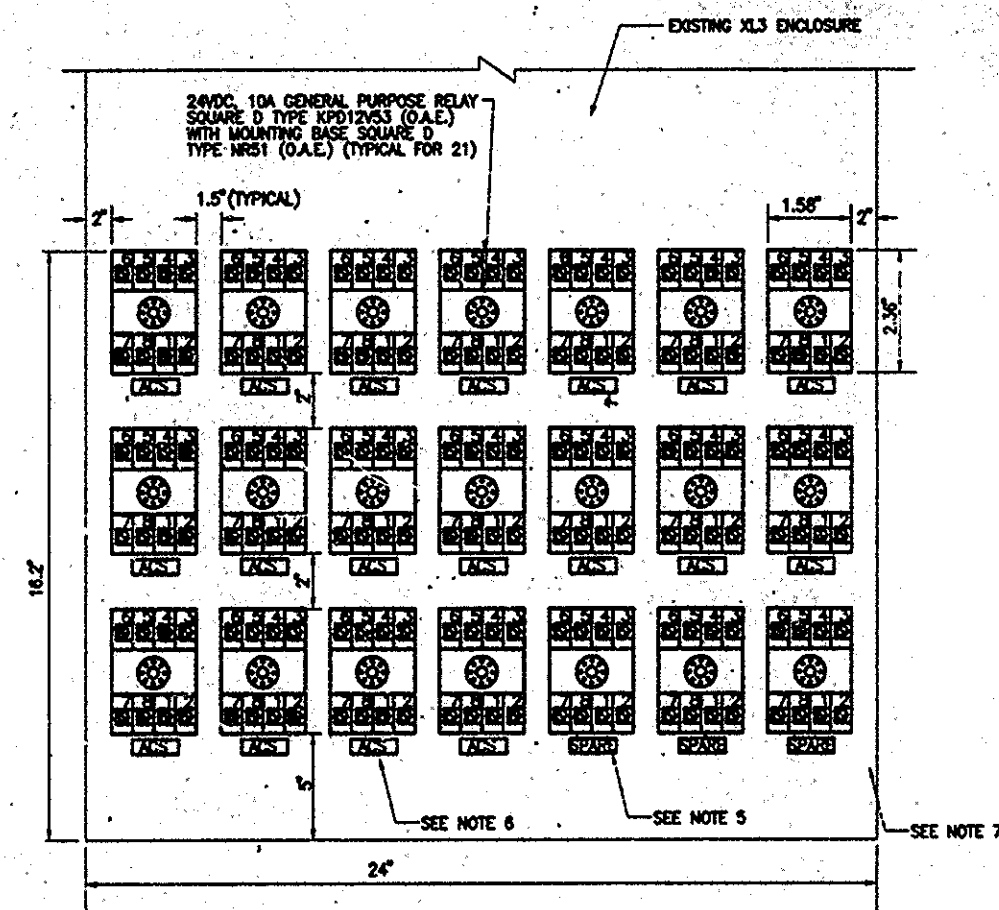
**PULL STATION  
CONNECTION DIAGRAM**  
N.T.S.



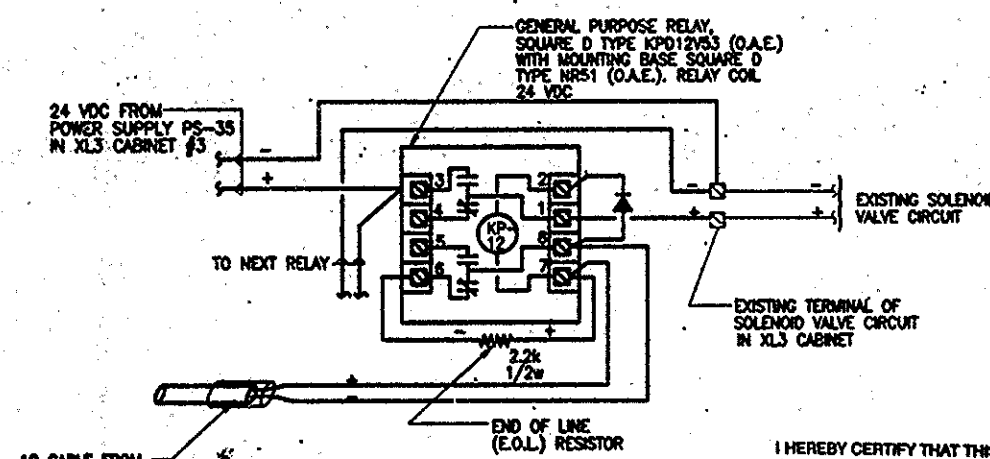
**AREA SMOKE DETECTOR INSTALLED  
INSIDE THE "ACS" UNIT-DETAIL "C"**  
N.T.S.



**DUCT SMOKE DETECTOR  
MOUNTING DETAIL "D"**  
N.T.S.

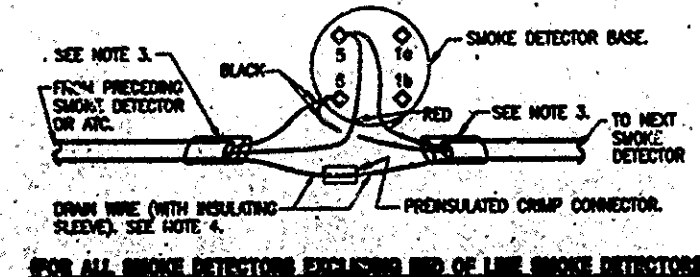
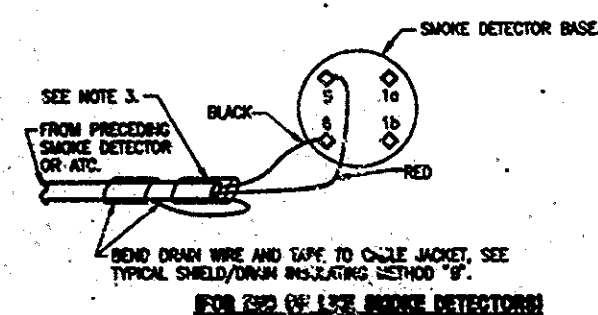


**TYPICAL DETAIL "F" KP-12 INTERPOSING RELAYS  
MOUNTING DETAIL IN XL3 ENCLOSURE**  
N.T.S.

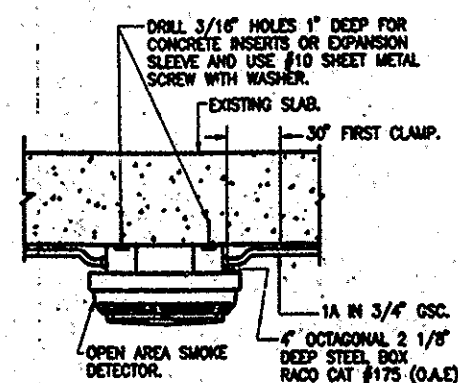


**TYPICAL KP-12 INTERPOSING  
RELAY WIRING DIAGRAM**  
N.T.S.

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-88-06 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.  
DATE 2/1/90  
DATE 4/3/90  
CONTRACT ENGINEER  
ENGINEERING PROGRAM MGR.



**TYPICAL SMOKE DETECTOR WIRING DIAGRAM**  
N.T.S.



**SMOKE DETECTOR INSTALLATION  
DETAIL "E" (FOR OPEN CEILING)**  
N.T.S.